



the **ILLINOIS ENGINEER**



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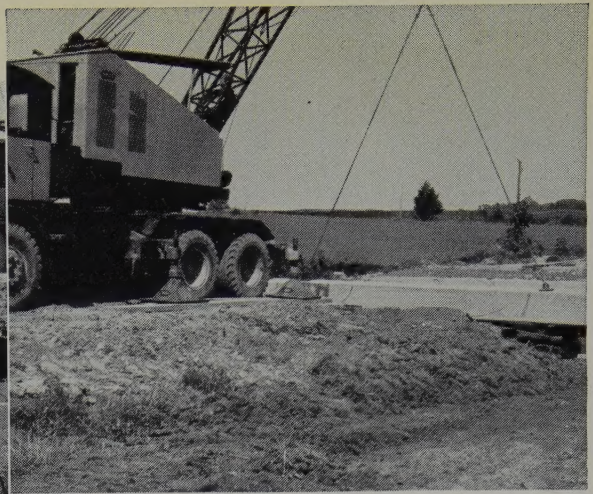
ALL ROADS LEAD TO ROCKFORD
APRIL 30, MAY 1 AND 2



THE ILLINOIS ENGINEER
APRIL, 1959
VOLUME XXXV, NO. 4

74TH ANNUAL CONVENTION
APRIL 30, MAY 1 and 2
ROCKFORD — FAUST HOTEL

▼ *Piling in place ready for caps*



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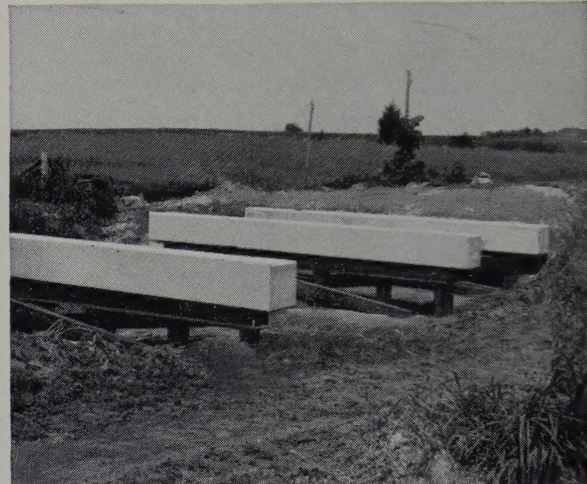
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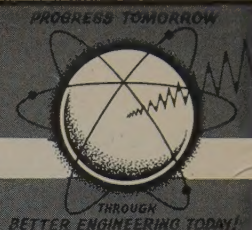


THE

ILLINOIS ENGINEER

ILLINOIS SOCIETY OF PROFESSIONAL ENGINEERS, Incorporated

Affiliated with the National Society of Professional Engineers



HAIL, ENGINEERS!

to the Editor:

February 22-28 being National Engineers' Week, the homage should be acknowledged the Engineering profession, with special tribute to the thousands of creative designers who devote their every waking hour (and some sleepless nights, too) towards making our life, directly or indirectly, easier, more comfortable, healthier and more luxurious.



Mrs. James R. Sebern

Somewhere along the way, the prestige of professionalism accorded other fields has all but eluded the engineers. They themselves, I'm afraid would be the first to admit to "couldn't care less." Yet, it is because of their continual vigilance towards progress through persistent research that alters our very way of life. They, too, are dedicated men, be it in devising a new minute part to make a more efficient differential in a

huge Caterpillar tractor, or be it the designing of colossal structures that dot our skylines. Each preliminary blueprint vouches for the best the cream of the engineering profession can innovate!

Slow but sure is the professionalism of the engineering field gaining ground by the recognition of the men whose primary love is design and product engineering through a "registered" status. Similar to the Bar examination of the legal field, the certification of the medical, dental and financial people, engineers to achieve the rank of "registered" must pass two eight-hour days of grueling written and oral examinations given by the State of Illinois. Taint easy!

Engineers make wonderful husbands and good fathers—I should know—I'm married to one!

Mrs. James R. Sebern
Decatur

Decatur Herald and Review, Feb. 22nd, 1959.

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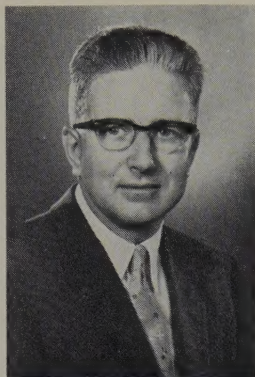
PRESIDENT'S MESSAGE

By FRANK W. EDWARDS

Chapter Activities

Chart a Course

The question has been asked, "What can new chapters of I.S.P.E. do?" A quick answer might be "do what older chapters are doing!" Such an answer is inadequate for two reasons. First, new chapters are not well informed about activities of older chapters. Second, and more important, the performance of some older chapters often has been less than perfect. New chapters should challenge them. New chapters can and it is hoped will take the lead in furthering I.S.P.E. objectives.



Objectives Defined

The objectives defined by the Frank W. Edwards I.S.P.E. Constitution are:

- "a. Advancement of the public welfare.
- "b. Advancement of the professional, social and economic welfare of the professional engineer and the engineer-in-training.
- "c. Promotion of high standards of engineering education.
- "d. Maintenance of high ethical engineering conduct and practices."

It is believed that advancement of the public welfare, the first item on the list, can be accomplished most effectively by fulfillment of the other three stated objectives.

Many subjects requiring attention are specified in committee assignments outlined in the by-laws. Many of these subjects indicate suitable areas for chapter investigations, analyses, and recommendations.

Chapter Organization Important

In order to embark on a full-fledged program either in a new chapter or a revitalized older chapter it is necessary first to develop sound organization. The officers cannot do the job alone. They can provide the leadership, create the atmosphere conducive to action, and personally put their hearts and souls into obtaining results, but they cannot do all the detailed work necessary to conduct a comprehensive program. A place to start in developing plans for action is with the constitution and by-laws of I.S.P.E. Reread these documents, then develop a chapter organization to fulfill their expectations. Delegate authority but keep a check on progress. A chapter should avoid undertaking too many major projects, if the same people are expected to do the work on all of them. Pick members for key positions not because of enthusiasm alone, but because they have capabilities specifically suited for their assignments.

Chapter members and their officers also should keep

in mind they are part of a three level organization: the local chapter, the state society and the national society. The chapter is the "grass roots" and it must keep the state informed of its activities. This can be done in two ways; i.e., by communication with state headquarters by mail, but far better by making certain that chapter representatives attend state board meetings where two-way communication is most effective. Absenteeism at board meetings has been extremely low, averaging only slightly over one chapter per meeting for the six meetings held during the past year. Despite extremely hazardous highways at the time of the March session, seventeen of the twenty-one chapters and all but one state officer attended the meeting in Decatur.

Special Projects

Many chapters have undertaken special projects. Some may be cited as guides for others. A special event held in March was an outstanding contribution toward sound public relations. This was the Sixth Biennial Legislative Dinner sponsored by Captain Chapter and supported by the other chapters.

In February several chapters promoted various activities during National Engineer's week. As a result of its program Champaign County Chapter now is scheduled to sponsor a series of television broadcasts. Central Illinois Chapter, also, has been invited to do the same. In addition Central Illinois sponsored the first Junior Engineering Training Society (JETS) in the state at St. Teresa High School in Decatur.

Five new chapters of I.S.P.E. have been chartered this year as a result of sponsorship from Joliet, Central Illinois, and Chicago Chapters. Ten chapters throughout the state participated in meetings honoring newly registered engineers.

One of the most outstanding special projects during the past year was completed successfully by the Chicago Chapter through its ethics and practice committee. Last December, largely as a result of the work of this committee, a conviction, the first under the Illinois Professional Engineering Act, was obtained for a person practicing engineering without a license.

These are samples of what chapters are doing. The special events mentioned here and the numerous others in progress throughout the state produce both tangible and intangible benefits to society in general and the profession in particular.

Routine Projects, Too

Routine operations should not go unnoticed. Monthly meeting programs of quality, chapter news letters and similar items contribute to advancement of I.S.P.E. objectives. St. Clair Chapter sets a good example for program planning. A "calendar of programs" is prepared at the beginning of the year and distributed to chapter members.

Role of Chapters

Chapters form the solid foundation on which our Society is built. We should be glad their number is increasing.

74th CONVENTION LARGEST AND BEST

HISTORY MAKING NAVAL SKIPPER

TO BE CONVENTION SPEAKER

Captain Richard B. Laning of the U. S. Navy, who as Commander of the nuclear-powered submarine, the *Sea Wolf*, will be the principal speaker at the 74th Annual Convention banquet May 1st in Rockford. The *Sea Wolf* established an underwater endurance record last Summer by remaining submerged for more than sixty days. Captain Laning's talk will undoubtedly relate some hair-raising experiences based on the underwater record, and other adventures with the *Sea Wolf* and other naval craft. Captain Laning is now assigned to the office of Chief of Naval Operations in the Pentagon in Washington, D. C. He will fly to Rockford on Thursday, April 30, which will provide an opportunity for individual members of I.S.P.E. to become acquainted with him prior to the climatic banquet on Friday.



Submarine "Seawolf"

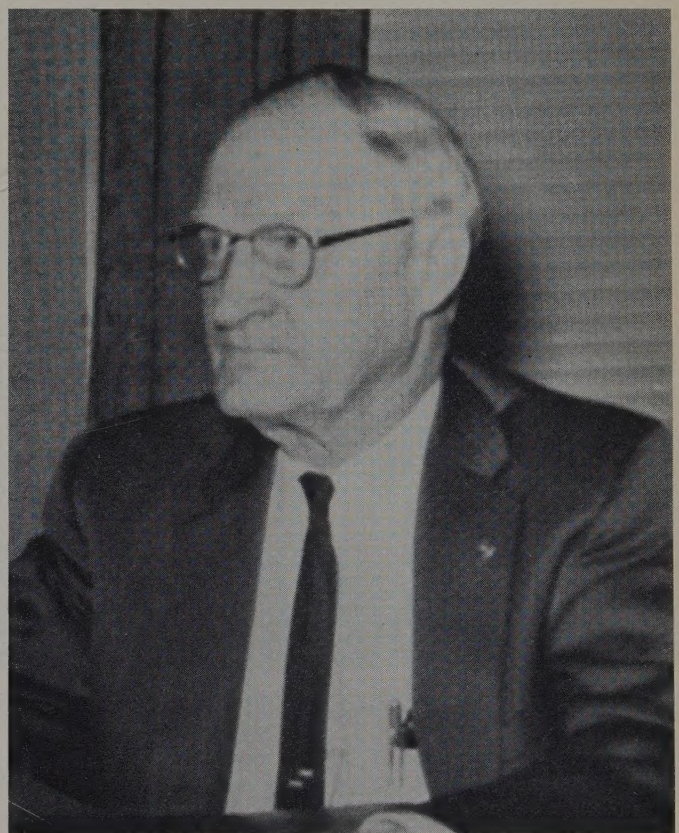
In addition to Captain Laning's appearance an outstanding program is being planned by your State Convention Committee. One of the interesting features of the three-day affair will be the "wheelbarrow parade", which will climax the past year's Membership Campaign in which the various Chapter Membership Committee Chairmen made challenges, the pay off to be that the winners ride, and the losers push, a wheelbarrow down the Main Street of Rockford.

At the Thursday luncheon, Mr. James Piper, Vice President of Portland Cement Association, will relate interesting highlights of his experiences on a visit to Russia last year. He will illustrate his comments with slide projections of pictures taken on the trip. Thursday evening a buffet dinner will be enjoyed at the Wagon Wheel, one of the unique places of the Mid-West, near Rockford. Visitors may enjoy any one or more of a number of entertainment features at the Wagon

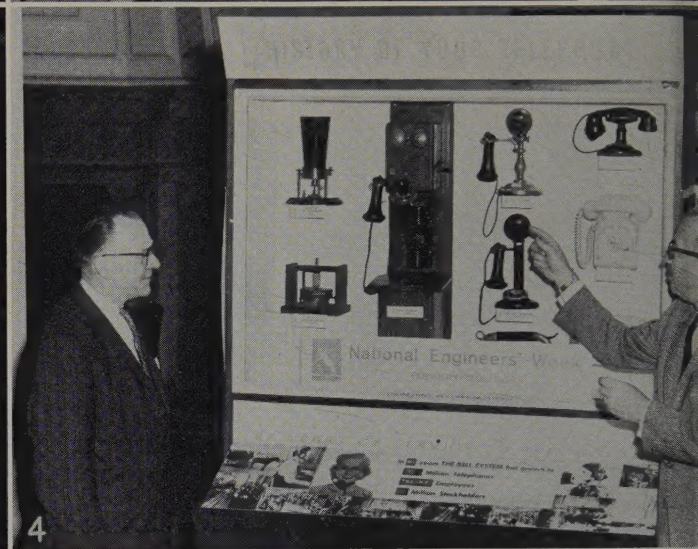
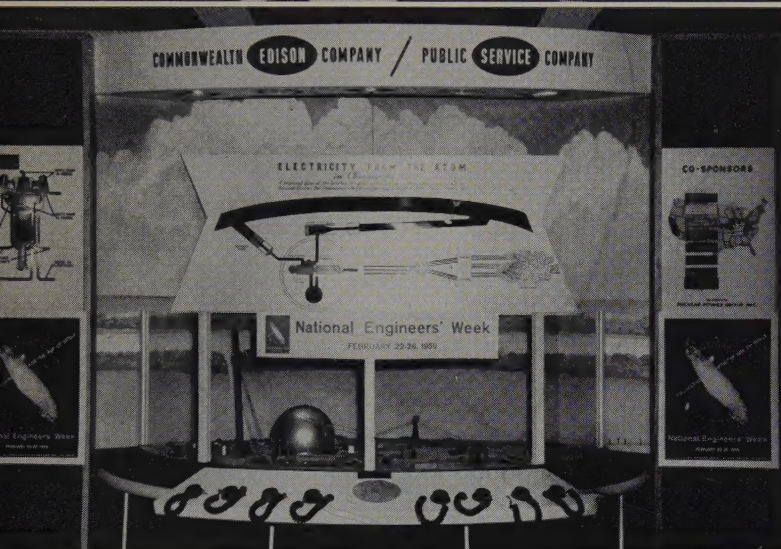
Wheel, which include ice skating, dancing, bowling or swimming. On Thursday afternoon the Functional Sections will hold separate meetings for elections and programs. The Highway Engineers Functional Section will have a panel discussion on problems which affect their group. Several outstanding panel members will be included, and it is anticipated that Illinois Chief Highway Engineer, Ralph Bartelsmeyer, will be on the panel.

At the Friday luncheon, National Society of Professional Engineers President Dr. Clark Dunn will be the principal speaker. Continuing the program to the afternoon on Friday, Paul Doll, Executive Director of the Missouri Society of Professional Engineers, will discuss "Why a Professional Attitude?". A legislative forum will be held on Friday afternoon in which various legislative problems will be discussed. Many important committee meetings and, of course, the Annual Meeting on Friday morning, will be the hard core of the Convention to discuss and establish policies for the operation of the Society during the forthcoming year.

All in all the 74th Annual Meeting promises to be one of the most productive and enjoyable Conventions in the long history of the Society. The Convention will end Saturday morning, May 2nd, with the organization of the 75th Board and the standing committees to chart the course for 1959-60.



R. T. Cash, Convention Chairman



The Central Illinois Chapter arranged a Combined Engineers' Week Dinner Meeting for engineers in the Central Illinois Area. The participating Societies were A.S.C.E., A.S.M.E., A.I.E.E., and A.I.C.H.E. More than 330 engineers and guests heard Admiral Van Praag, Jr., Past President N.S.P.E.; Walter C. Jacob, Navy Research Reserve Company 9-2; Dr. Ralph Fredrickson, Section Chairman A.I.C.H.E.; George P. Wilson, Section Chairman A.I.E.E.; Admiral Bennett, Chief of Naval Research; Robert E. Schwartz, President Central Illinois Chapter, I.S.P.E.; and Paul L. Zumwalt, Section President, A.S.C.E. Lyle F. Peckman, Section Chairman of A.S.C.E. was not present for the picture.

OTHER PICTURES OF DISPLAYS AT JOLIET AND DECATUR

COMMITTEE REPORTS SHOW I.S.P.E. PROGRESS

The Illinois Society of Professional Engineers must rely heavily upon the work and recommendation of its committees—standing and special. Without the energy given to study of various problems by each Committee member your Society would not function properly. With this thought in mind we have condensed the reports of the several committees to show the accomplishments of the past year and the recommendations for future accomplishments and progress of the Society. For your information a condensation of each of the Committee reports follows:

CHAPTER ACTIVITIES COMMITTEE

RECOMMENDATIONS:

1. That efforts be directed toward the establishment of a student chapter at each of the accredited engineering colleges in Illinois.

ACTIVITIES:

During the past year, the committee was involved in the following activities:

1. A Chapter Activities Survey for the period 1 January to 30 June, 1958, using the N.S.P.E. monograph was conducted.
2. A Chapter Meeting Report Form was developed and adopted for use in collecting chapter program data.
3. Five new chapters of I.S.P.E. were organized raising the total to 21. Additional preliminary work has been done in three other areas.
4. Annual Recognition Dinners for newly registered engineers were conducted in six local areas.
5. The Committee arranged the program for the 11th Annual Chapter Officers' Conference in Peoria on January 31, 1959.
6. The Committee studied the Chapter activities situation in the Southern Illinois Area with the view of revitalizing interest and activity there. Recommendations to accomplish this were made at the March Board of Direction meeting.

SUGGESTIONS:

1. That Chapter evaluations, using the N.S.P.E. monograph, be made every six months as a matter of regular practice.
2. That the Chapter Meeting Report form be continued and that it be submitted regularly by Chapter secretaries to the I.S.P.E. office.
3. That each chapter devote at least one meeting a year to membership development.

POLICY RESEARCH COMMITTEE

Statements of Professional Policy are harder to come by. We all agree that they sound nice once stated, but the original formulation into words is considerably more difficult.

Following are some areas of interest in which definite statements should be made as to the official position of I.S.P.E.:

- a) Student societies
- b) Student membership
- c) Registration of Professors and Deans of Engineering
- d) Registration of heads of certain government agencies
- e) Offering of free engineering services by certain types of industrial and sales groups
- f) Offering of engineering services by contractors
- g) Telephone book listings
- h) Local code committees to include at least one Registered Professional Engineer
- i) Plans incorporating engineering design to be started by Registered Professional Engineers before being accepted for record
- j) Registration by reciprocity
- k) Registration by eminence
- l) Immediate investigation, and prosecution within county without the Society when warranted, of all cases cited in violation of the State Registration Law or Code of Ethics
- m) The use of the title "P.E."
- n) The relationship of the Land Surveyor to the Professional Engineer

There are many more that could be considered as vital to the Society. However, this is sufficient to illustrate the point that the task of formulating these statements of policy is a monumental one and will obviously take some time and patience. I suggest that the Board of Direction undertake as a normal routine practice to formulate at least two statements of policy at each Board meeting. These could then be sent to the local chapters for discussion and comment at the "grass roots level". After adoption, they could then be placed in an official file, be printed in THE ILLINOIS ENGINEER, and otherwise be circulated and advertised as representing the official views of the I.S.P.E. Such statements representing the official position of the entire membership will be of great importance.

J. Raymond Carroll, P.E.

REPORT OF PAST PRESIDENTS' COMMITTEE

To the Board of Direction of I.S.P.E.:

The affairs of the Society were ably handled by the incumbent Directors and Officers during the current 74th year.

Therefore, the only duty required of the Past Presidents' Committee was to serve as Nominating Committee for Officers for the ensuing 75th year, as specified by the interim by-laws adopted at the first meeting of the new Board in April, 1958.

All nominees were duly elected, and will be installed at the 74th annual meeting.

Andrew W. Neureuther, *Chairman*

REPORT OF COMMITTEE ON U. S. G. S. MAPPING

Topographic maps are now available for all but two 15' quadrangles. Still missing are the maps for Odell and Flanigan quadrangles. The mapping is done and the sheets should be published in 1960.

The request for appropriation is about the same, or even a little more, than for last biennium, around \$120,000.00.

The remapping program for the next two years includes:

15—7½' quadrangles in N.E. Illinois from Chicago to the Wisconsin Line, all to be published late in '61 or '62.

2—7½' quadrangle Rockford to Wisconsin Line to be available in '61.

2—7½' quadrangles Pekin. On these only the control work is done.

2—7½' quadrangles south of Springfield.

2 or 3—7½' quadrangles new around East St. Louis and transcribing of several 1:25000 Army maps to the 1:24000 scale to match U.S.G.S. maps.

11—7½' quadrangles in Hardin County to be published in 1960.

In addition the control is being run for:

8—7½' quadrangles near Hardin County.

In all the present program includes:

36—7½' quadrangles being done cooperatively between State of Illinois and the federal government and 12 additional maps are being done on the national defense program.

For several years these reports of your committee on U.S.G.S. mapping mention that a conference is being planned to discuss two problems: Namely—

1) Laying out a program of remapping of the State of Illinois.

2) Develop better means for the "preservation of surveying" control monuments.

So far no such conference has been called by the State Geological Survey.

DECATUR WIVES PROMOTE ENGINEERS' WEEK WITH INTER-PROFESSIONAL TEA



Mrs. Charles Hutmacher, left, of the Lawyers Wives, is greeted Tuesday by Mrs. Alex Van Praag, Jr., hostess for a tea given by the Engineers Wives in the Van Praag home at 402 Southmoreland Place, as Mrs. Paul Berryhill of the Dentists Wives looks on.

ETHICS AND PRACTICE COMMITTEE

This Committee worked cooperatively with the corresponding committee of I.A.C.E. on problems of competitive bidding for professional services at two Illinois cities, practiced by a person not licensed, and filing of survey plats by a person not registered as a Land Surveyor or Professional Engineer. Each case has been resolved or investigated sufficiently so that final disposition will be made soon.

One accomplishment was the preparation of a resolution adopted by the Board of Direction on September 6, 1958, which spells out conditions under which submitting proposals for engineering services are to be interpreted as bidding.

The committee recognizes that there are many areas of operation of its work where competent legal advice is necessary, and recommends that provisions be made so that the Committee can have the benefit of legal counsel when needed and that provision for such services be made in the Society's budget.

SUMMARY OF MARCH 7 BOARD OF DIRECTION MEETING AT DECATUR

1. Salt Creek Chapter boundaries were approved as follows:

- North—State Highway 64
- South—U. S. Highway 66
- West—State Highway 53
- East—State Highway 42-A

Motion to approve North Shore Chapter boundaries as tabled, pending approval by Chapter members.

2. Reports on National Engineers' Week observance indicated greater activity this year than ever before. As an outgrowth of activities of Central Illinois Chapter, Station WTVP of Decatur has offered that Chapter one-half hour for 13 weeks, on a public service basis, to allow a presentation by professional engineers.

3. Executive Director Goddard reported that, upon investigation of case violation of Professional Engineering Act in Peoria, the alleged violator appears to be in the process of gaining registration by reciprocity, and no further action by I.S.P.E. was recommended at this time.

4. Chapter Activities Chairman Housiaux reported an investigation of possibility of new chapters in southern Illinois area, with the recommendation that I.S.P.E. Headquarters initiate action toward a meeting of all chapters involved to consider rearrangement of chapter areas and the potential membership for new chapters.

5. Recommendations of the Legislative Committee were discussed and the following action taken by the Board:

State Legislation

SENATE BILL 46: The Board categorically opposed the proposal that the Professional Engineering Act, the Structural Engineering Act, the Land Surveyors Act, and the Architects Act be placed in a Department of Labor and Industry for administration. The Board further empowered the Executive Committee of the Society, in conjunction with the Legislative Committee, to cooperate with other interested groups and to develop an acceptable alternative to the provisions proposed in Senate Bill 46.

Also, the Board empowered the Executive Committee, with the advice of the Legislative Committee, to explore the proposed positions of Superintendent of Waterways, Superintendent of Highways, Superintendent of Aeronautics, and the Supervising Architect, as outlined in Senate Bill 46, and that if those positions could replace supervising engineers, the Society ask that the Bill be modified to require appointees to such positions to be legally qualified to practice under the laws of the State of Illinois.

Also, if the Superintendents as mentioned heretofore are to replace supervising engineers, efforts be made to

eliminate salaries of such engineering chiefs from the Bill.

The Board took the further position that employees in all Departments who are required to have engineering education should be eliminated from the administration of the Personnel Code.

HOUSE BILL 151: This Bill provides that Registered Professional Engineers with four years' experience in land surveying may become registered as land surveyors without examination. The Board voted to oppose this proposition.

HOUSE BILL 366: This Bill amends the Professional Engineering Act to allow corporations to practice professional engineering if the chief executive officer or managing agent of the corporation in Illinois is a Registered Professional Engineer. The Board opposed this proposed amendment in its present form and directed the Executive Committee to determine whether or not an alternate amendment is acceptable providing a greater number of registered engineers be required in a corporation and to be specifically mentioned in the Bill.

National Congress

KENNEDY-ERVIN BILL: The Board directed that letters be written to Senators from Illinois expressing opposition to that portion of the Bill which would tend to place engineering personnel in labor unions without being allowed to vote upon the matter.

S. 1119: (Introduced by Senator Humphrey) An Act to amend the Davis-Bacon Act to require a pre-determination of prevailing salaries and wages on projects in which Federal funds are involved to include all architects, technical engineers, draftsmen, and technicians. The Board voted to oppose the inclusion of professional persons in this Bill and authorized the Executive Committee to cooperate with I.A.H.E. and other interested groups in opposing the expansion of the provisions of the Davis-Bacon Act as now exists in Public Law 627, and to advise the National Society and I.S.P.E. Chapters of the action taken.

6. National Directors McLean and Brown reported on N.S.P.E. spring meeting in Birmingham, Alabama, pointing out that Illinois is in second place in District 6 membership contest, after having been in fifth place all year. They expressed belief that Illinois can pass Texas by April 20, the last day on which members may be transmitted to N.S.P.E. to count on this year's total.

7. Membership applications were approved as follows:

Under Introductory Membership—66 National members and 53 Engineer-in-Training members.

By regular application—33 National members and 10 Engineer-in-Training members.

8. The report of the Interprofessional Relations Committee of I.S.P.E. relating to the problem of grading Professional Engineering examination papers was

adopted, with the recommendations that I.S.P.E. protest any changes in grading procedure which might weaken the P.E. examination and the status of registration.*

9. The Board approved recommendations submitted by the Executive Committee. (See Items 1, 2, 4, and 6 of Summary of Executive Committee meeting of March 6.)

10. The Introductory Membership program was voted to remain in effect until altered by the Board.

11. After discussion of possibility of obtaining car license plates with the letters "P.E." on them (as are available in New York), the matter was referred to the Public Relations Committee.

**Note: This matter has since been resolved to the satisfaction of the I.S.P.E. and the Professional Engineers' Examining Committee.*

March 20, 1959

The Honorable William G. Stratton
Governor of the State of Illinois
Springfield, Illinois
Dear Governor Stratton:

The Illinois Society of Professional Engineers wishes to commend you for your untiring efforts in behalf of good government in the State of Illinois. We particularly appreciate your farsightedness in initiating reorganization of the civil administration of the State Government to provide more efficient and economic operation as embodied in Senate Bill Number 46. We wish to emphasize that our organization is interested in better day-to-day operations of the State Government.

As an illustration of our active interest we respectfully refer to our letter dated November 4, 1958, in which we suggested a conference to consider ways and means to strengthen enforcement of laws administered by the Department of Registration and Education. This suggestion was made in an attempt to develop more effective administration in line with your demonstrated desires.

In reviewing Senate Bill Number 46 we conclude certain modifications would provide greater benefit to the public:

(1) It is the opinion of the Illinois Society of Professional Engineers, after careful analysis of the proposed reorganization, that a division of the functions of registration of the Professional Groups among many different Departments would tend to be inefficient; because it seems many phases of the processing of examinations and the administration of registration can be performed more efficiently, and thus more economically, under a Central Department. Therefore, we would recommend that the functions pertaining to Professional Registration be continued as an entity and that provisions be made for more effective enforcement of the various Professional Acts.

(2) The Illinois Society of Professional Engineers opposes placing the administration of the Professional Engineering Act, the Structural Engineering Act, and the other related Professional Acts in a Department of Labor and Industry.

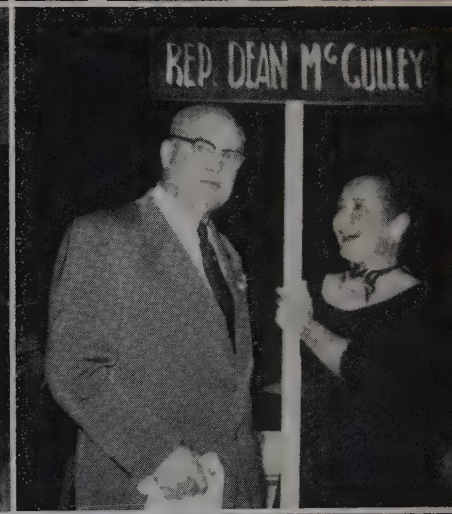
We desire clarification of some of the proposals in Senate Bill 46. If the position of Superintendent of Highways is intended to replace or supercede the functions of the Chief Highway Engineer, we would respectfully request that provisions be made in the Bill to require that he be a qualified Engineer consistent with the laws of this State and that the salary be commensurate with the responsibilities assigned. We would further recommend that such salary equal or exceed the schedule of minimum salaries adopted by this Society. Copies of this schedule will be made available upon request.

Because the present draft of Senate Bill 46 is not clear as to the intent in certain sections, the Professional Engineers respectfully request the opportunity to participate in a conference to consider modification. By virtue of open discussion we could make specific recommendations which we believe will be helpful to the Administration in formulating a revised Bill that will provide for the public welfare.

Very truly yours,
Larry Goddard,
Executive Director

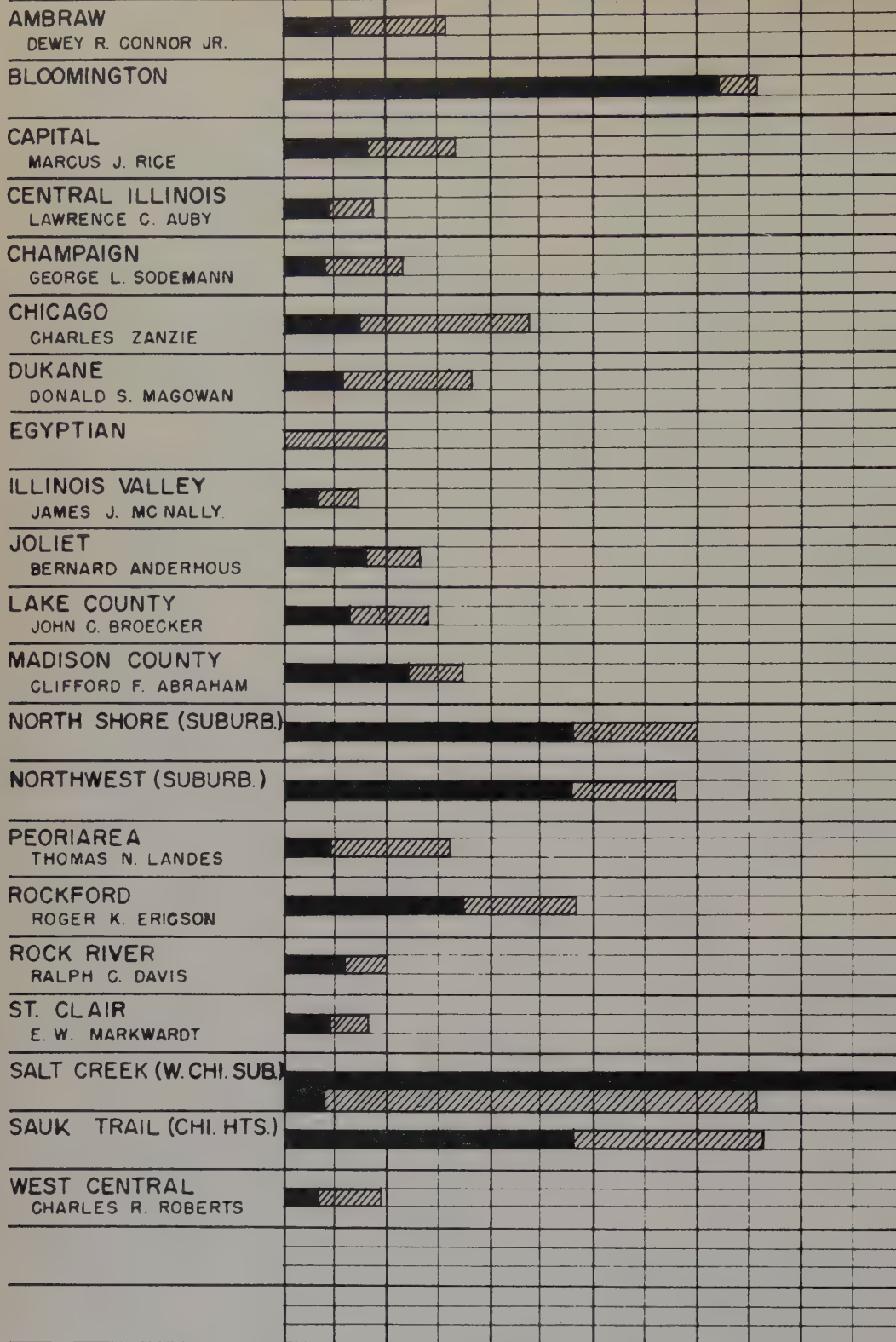
(Original signed by Larry Goddard)

**ENGINEERS ENTERTAIN
MEMBERS OF LEGISLATURE
AT SIXTH BIENNIAL
LEGISLATIVE DINNER
IN SPRINGFIELD, MARCH 17TH.
ON OPPOSITE PAGE ARE PICTURES
OF SOLONS BEING INTRODUCED
BY
BEAUTIFUL YOUNG LADIES FROM
THE
DEPARTMENT OF PUBLIC HEALTH**



MEMBERSHIP CAMPAIGN PROGRESS

0 20% 40% 60% 80% 100% 120%

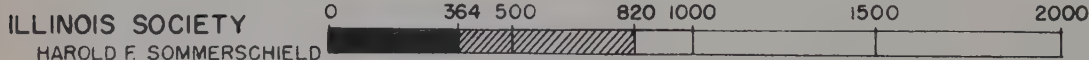


HONOR ROLL

R. Ericson	30
C. J. McLean	8
C. E. Zanzie	8
Ralph Davis	7
Linas Brown	5
B. Anderhous	4
E. R. Bolo	4
R. D. Collins	4
R. C. Hahn	4

THE FIRST SIX

Salt Creek	212%
Bl'mg'ton Area	92%
Sauk Trail	92%
North Shore	80%
Nt. West Sub.	76%
Rockford	56%



2000 OR BUST

For Contest Purposes, Percentages on Chapters Or -
ganized After April 1958 are Computed on a Basis
of 25 Member Starting Base. Overall Percentage of
Objective - 41%

REPORT OF THE YOUNG ENGINEERS COMMITTEE

The main objective of this Committee during 1958- was to schedule a Young Engineer's Night observance at each chapter. Letters were sent to all chapter presidents requesting appointment of a Young Engineers' Representative to work with the committee in this endeavor. Ten chapters complied with this request.

Young Engineers' Night observances were held in the chapters. Several programs featured the recognition of newly registered engineers. Others consisted of panel discussions and talks on subjects of special interest to young engineers. Plans are already underway in many chapters for similar observances next year. The committee recommends continued promotion of Young Engineers' Night as an annual observance at each chapter.

In accordance with Board of Direction action last year, the committee acted to insure that at least one young engineer is appointed to each of the standing committees. A young engineer was recommended to serve on a committee which did not have young engineer representation. Appointment was approved by the committee chairman.

EDUCATION COMMITTEE

Although the subject will be considered further, the consensus of the Committee regarding developing and sponsoring programs to improve teaching of mathematics and the physical sciences, as well as general subjects in the secondary schools, was that such an attempt by I.S.P.E. at this time would meet with little enthusiasm.

The Committee recommends continuation of work on establishing high school and college Career Day Conferences and a program for recognition of top college and high school students.

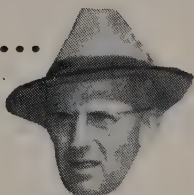
College administration attitude toward formation of student chapters was sought and the feasibility of establishing student chapters of I.S.P.E. at engineering colleges within the State was reviewed. A set of procedures for establishing P. E. Clubs is to be drawn up for submission to the Executive Committee.

The Committee initiated a study to determine the extent to which college engineering faculties in Illinois are registered as Professional Engineers, with a comparative analysis in medical and legal colleges. The engineering survey showed that of the three schools reviewed only 33 percent, 49 percent, and 64 percent of the faculty members are licensed.

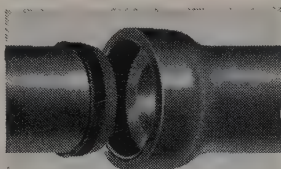
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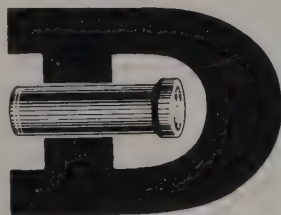


Ralph Lancaster, Supt. of Sewer and Water Dept. of Kearney, Neb., was "well pleased with the Dickey 'Coupling'."



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YOUR DIRECTOR REPORTS

By C. J. McLEAN

Messrs. Robert Brown and C. J. McLean attended the Board of Directors' Meeting at Birmingham, Alabama, February 19-21, 1959. The principal subjects of interest to Illinois members which were discussed are as follows:

The Engineers-In-Industry Committee reported at length about the activity of organizations which are interested in bringing Professional Engineers into some kind of a labor union. These efforts have now been extended to university campuses and a speakers bureau for the campus activities has been organized, and is well financed. N.S.P.E. must be prepared to present its story on the university campus as well.

In the matter of Unity in the engineering profession, Mr. Garvin Dyer reported on progress since the last meeting in San Francisco. The Functional Plan proposed by A.I.E.E. was again endorsed in principal at the Birmingham meeting and a kit for the use of Chapters in working out local cooperation with other Societies in the interest of Unity has been prepared and will be sent to all State Society Offices and to all Chapter Presidents and Secretaries. Chapters are advised to be on the lookout for this useful tool for promoting Unity in the profession.

The Ethical Practices Committee reported progress on its program to obtain uniform telephone listings and recommended a new definition for competitive bidding for professional engineering services which was adopted. This definition is as follows:

"Competitive bidding for professional engineering services is defined as the formal or informal submission, or receipt, of verbal or written estimates of cost or proposals in terms of dollars, man days of work required, percentage of construction cost, or any other measure of compensation whereby the prospective client may compare services on a price basis prior to the time that one engineer, or one engineering organization, has been selected for negotiations. The disclosure of recommended minimum or median fee schedules prepared by

various engineering societies is not considered to constitute competitive bidding."

An invitation to the Society to meet in Chicago in 1961 was presented at Birmingham but the Directors voted to accept the invitation by the State of Washington to meet in Seattle. The winter meeting will be held at Des Moines, Iowa, and the fall meeting in Virginia.

ART BEAZLEY SELECTED FOR NATIONAL SCHOLARSHIP COMPETITION

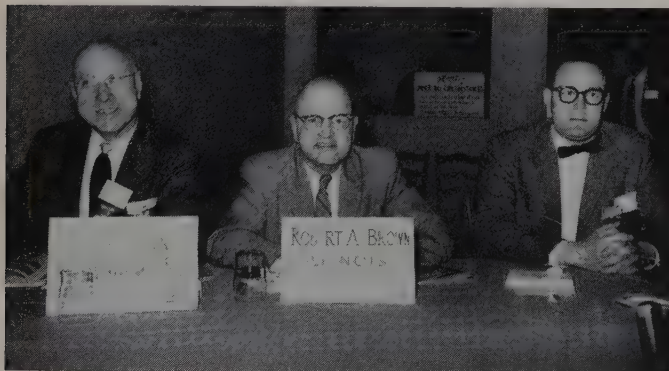
Art Beazley, Arcola High School senior, and son of Mr. and Mrs. Raymond Beazley, has been named Illinois winner to compete with 34 other State winners for an A.R.M.C.O. - N.S.P.E. Civil Engineering Scholarship. Art is the candidate sponsored by Champaign County Chapter.

Five scholarship recipients will receive awards equivalent to \$3,000 for pursuit of a civil engineering degree.

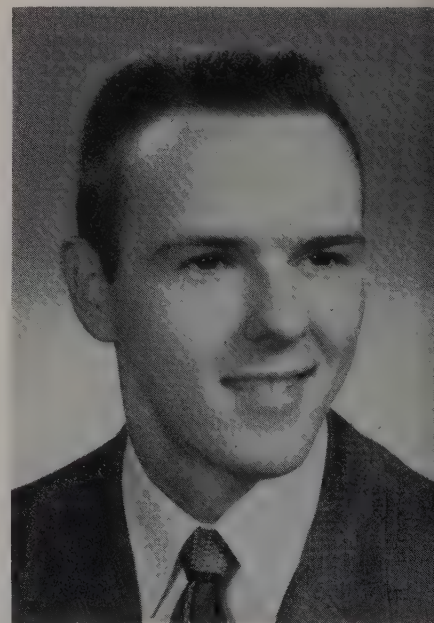
Beazley, a high honor roll student with a 4.75 grade average during high school, plans to attend the University of Illinois next year. He has been active in sports, music and other extracurricular activities. He played football for four years, basketball for three years and lettered in track two years. He has played in the high school band for four years and won first place in State saxophone contests twice, and was selected to all state band. He is president of the student council, helms city and county offices at Boys State, and is the winner of the S.A.R. award this year.

I.S.P.E.'s Education Committee, in making the State selection, said of Arthur: "His application bore definite evidence of a keen interest in Civil Engineering for the sake of the profession and not just that it might provide him with a scholarship. He is not only an outstanding student but has an exceptionally well rounded and demonstrated extracurricular background that will be well received in the engineering profession."

The Illinois Society of Professional Engineers is proud to have young Beazley as its representative in the scholarship contest and wishes him success in the final examinations.



National Directors C. J. McLean and R. A. Brown, with Secretary-elect John Housiaux at N.S.P.E. Regional meeting in Birmingham, Ala., February 19-21.



Arthur Beazley

PUBLICATIONS COMMITTEE

This Committee's recommendations are that THE ILLINOIS ENGINEER be developed suddenly into an outstanding professional magazine which would be so eagerly sought that its arrival would be keenly anticipated; that its reputation would spread even beyond the circle of the professional engineer in Illinois and be a spearhead for stimulating membership growth; that it would stimulate the interest of the engineer in the profession and in the active support of I.S.P.E., and attain public acceptance as the representative of the engineering profession in Illinois.

The Committee requests the following principal action in authorizing the Publication Committee to:

(a) Form an I.S.P.E. publishing corporation, a non-profit organization capitalized for not more than \$30,000, with stockholders limited to chapters and members of the Illinois Society of Professional Engineers and/or the Illinois Society of Professional Engineers, Inc., with no owner being permitted to own more than 25 percent of said \$30,000 stock.

(b) Seek out professional talent to edit THE ILLINOIS ENGINEER.

(c) Investigate the practicability of utilizing a publishing company to handle or assist with the publishing and advertising.

(d) Make THE ILLINOIS ENGINEER a controlled circulation magazine of the free distribution type.

(e) Approve the practice of making the mailing list of THE ILLINOIS ENGINEER available to its advertisers on the condition that materials sent to those on the mailing list would be of conceivable benefit to the professional engineer.

The Publications Committee further recommends:

1. That a state directory of I.S.P.E. members be published as an issue of THE ILLINOIS ENGINEER within the next six months.

2. That cards of professional engineers engaged exclusively as consultants be separated in THE ILLINOIS ENGINEER from those engaged in other fields.

3. That a working system be developed for getting local chapters to submit news to the editor of THE ILLINOIS ENGINEER.

BUILDING AND CONSTRUCTION CODES COMMITTEE

This Committee recommends the adoption and enforcement of local building codes in harmony with the Illinois Rules and Regulations for Fire Prevention and Safety, and reports the adoption of new codes in five cities and one county in Illinois.

The Committee recommends active continuation of its present program and urges each local chapter to establish a Building and Construction Codes Committee to cooperate with the State committee.

PUBLICITY AND PUBLIC RELATIONS COMMITTEE

Cognizant of the fact that publicity and public relations encompass all engineering and professional activities of the State, Chapter and individual members, this Committee's ultimate goal is to educate every engineer to seek and obtain proper recognition for the efforts and accomplishments of the profession. The work of the Committee included preparation of an inventory of our activities and needs to serve as a guide for present and future work, along with a further recommendation that consideration be given to an annual award for the chapter making greatest strides in chapter publications.

REPORT ON STUDY OF EGYPTIAN CHAPTER ACTIVITIES

Information gathered while in the area indicates:

1. That the comparatively sparse distribution of engineers and I.S.P.E. members in the area could be turned to an advantage, since there is no technical society activity in the area.

2. That the greatest potential in membership apparently is among highway engineers and consulting engineers.

3. That there is a dormant interest in I.S.P.E. in the area and some means of reviving activity is needed.

4. That the Egyptian Chapter had its first meeting in eight or ten months on February 19, 1959.

CONCLUSIONS:

From the study of this overall situation, it seems that some re-arrangement of Chapter areas is desirable. This re-arrangement should break the area into smaller divisions rather than consolidating them. It appears that Effingham, Mt. Carmel, Mt. Vernon and Carbondale could serve as the bases for new (but smaller) Chapter areas.

The I.S.P.E. should take an activity into the region as soon as it is practicable to do so. This activity should possibly take the form of a general round table meeting open to all members and non-members with the state officers participating. The purpose of the meeting would be to discuss professional problems, the re-arrangement of chapter areas, and the re-vitalization of chapter activities. Any such meeting would need to be scheduled for a Saturday because of the travel distances involved. Action to re-arrange areas should be accomplished only with the consent of the chapters and members involved.

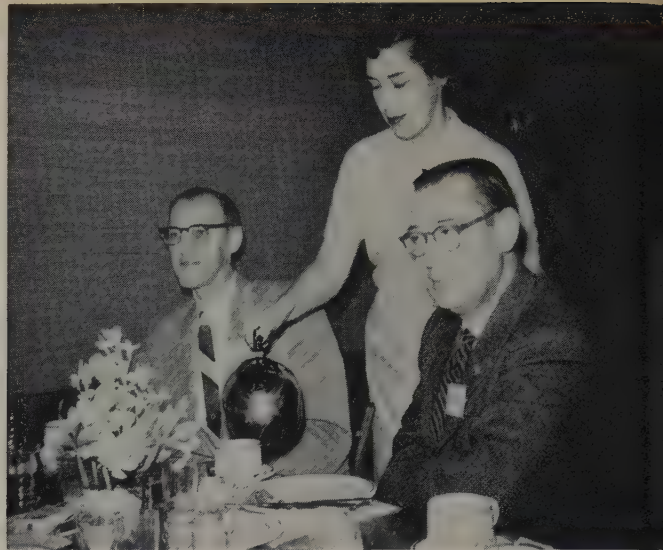
RECOMMENDATIONS:

In light of this discussion, it is recommended that the State Office initiate action in cooperation with the chapters concerned to arrange at an early date for a general meeting in the area.

Chapter Activities Committee
John E. Housiaux, *Chairman*



Kal Klammer, Illinois Bell Telephone; Bob Blalock, President, Cosmopolitan Club; Cecil Clark, Vice President, Sangamo; Charles R. Dodson, production manager; Ross McNutt, quality control manager.



Mrs. Orville Keirs, of Sangamo Electric Company in Springfield, serves coffee to Kal Klammer and Ross McNutt who attended a breakfast at Sangamo's plant during National Engineers' Week. The Cosmopolitan Club of Springfield, planned the breakfast and tour of the plant in cooperation with Sangamo engineers and officials.

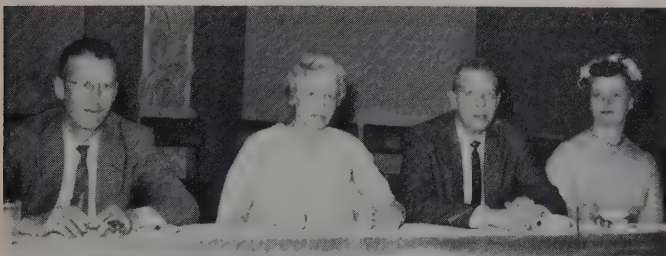


Joliet Chapter presented certificates of achievement and a \$25 bond award to outstanding math and science students in the area in observance of National Engineers' Week. Left to right, Dick Alexander, Chairman of Engineers' Week Committee; Bernard Anderhous, Joliet, President; Janet Sifferd, Joseph Petrovic and George Hopkins, award winners; and Chester Lewis, Joliet City Manager.



In observance of National Engineers' Week, the Ladies Auxiliary of St. Clair Chapter, I.S.P.E., donated four engineering reference books to the Belleville Junior College Engineering Department.

Left to right, Mrs. L. M. Krause, Vice President Ernest Ganaway, student; Kenneth L. Edwards, Dean of B.J.C.; Robert Logan, student; Mrs. Louis Garcia, President; Frank Scott, engineering instructor and sponsor of the Engineers' Club at B.J.C.



At Left: Pat Murphy and Mrs. Murphy, Gerald Margrave and Mrs. Margrave, Dr. R. D. Clark, Charles Nelson and Mrs. Nelson.

VICE PRESIDENT-ELECT

William T. Hooper, Vice President-elect, joined I.P.E. as a National member in 1951. He is a Past President of the Lake County Chapter, and has served as Chairman of the I.S.P.E. Ethics and Practice Committee and the Building Code Committee.

Bill received a B.S. in Civil Engineering at Purdue University in 1937 and an M.S. from Pittsburgh in 1941. He has been an instructor in Civil Engineering at the University of Pittsburgh and was Assistant Professor of Civil Engineering at Northwestern University from 1946 to 1950. Since 1951 he has had his own consulting office.

Hooper served with the Army Air Corps in 1942 and later, with the Corps of Engineers, spent a year in the Pacific building airfields and roads on Saipan and Okinawa.

He is registered as a Professional Engineer in Illinois, Wisconsin, Michigan and Indiana and also as an Architect and Structural Engineer in Illinois.

Bill is a widower with two children—a boy, 10, and a girl, 8. His children, along with photography and sports, are his hobbies.

He belongs to the following organizations: N.S.P.E., I.S.P.E., A.S.C.E., A.I.A., Society of the Sigma Xi, and the Waukegan Rotary Club.



William T. Hooper, Jr.



Manuel Garcia

Manuel Garcia, Vice President-elect, joined I.S.P.E. in 1946 as a Junior member, advancing to National in 1948. He is a member of St. Clair Chapter, having served seven years as Secretary and as President in 1956.

Garcia is Assistant Chief Engineer of the Alton & Southern Railroad, where he has been employed since 1941. He is active in the American Railway Engineering Association, Engineers Club of St. Louis, Mississippi Valley Maintenance of Way Club, Roadmasters and Maintenance of Way Association of America, as well as civic, school and church organizations in East St. Louis.

He is a registered Professional Engineer in Illinois.

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ANNUAL REPORT

CONSTITUTION and BYLAWS COMMITTEE

The Committee revised the existing Constitution and Bylaws. The revisions were accepted by the membership by a vote of 550 to 55.

Chapter Constitutions of four new chapters were approved pending the writing of a proposed model Chapter Constitution. At present the Committee is working on this proposed Model Chapter Constitution. It is hoped that the new Board will reappoint a majority of the Committee members so that work in progress may continue.

The Chairman wishes to express his heartfelt thanks and gratitude to the members of his Committee and the other men who so graciously gave of their time, energy, and suggestions.

R. D. Collins, *Chairman*

TELLERS COMMITTEE REPORT

The election of two additional Vice Presidents and Treasurer, as required under our new Constitution and Bylaws, was reported as follows:

Total Ballots 74

For Vice President:

Manuel Garcia	631
William T. Hooper, Jr.	631
Scattered	10

For Treasurer:

James P. Murphy	697
Scattered	2
Ballots Spoiled	2

C. L. Ritchie
Charles Marr
Gerald Margrave
George Sodemann

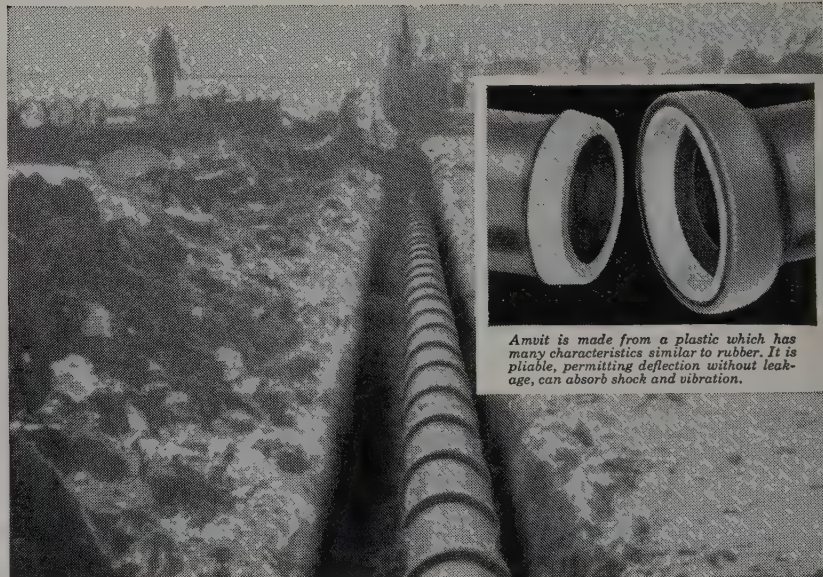
C. A. Nelson was unable to be present.

Stop Infiltration with Streator's New Amvit Joint

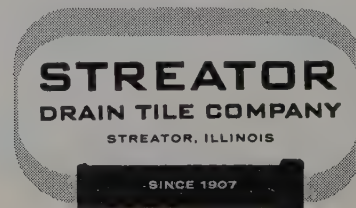
No matter what the conditions—muddy, narrow trenches; high ground water levels; or even completely under water—engineers and municipalities can now build completely water-tight sewers with Streator's new Amvit Jointed Clay Pipe.

Permanently bonded to Streator Clay Pipe at the factory, this acid-resistant joint is flexible enough to deflect slightly during normal back-filling and settling. Yet the joint maintains a perfect seal to keep ground water out and wastes in.

Streator Clay Pipe and adapters fitted with root-proof Amvit Joints are immediately available, in all diameters from 4 to 24 inches. Shipments are quickly and immediately made to the job site from our nearby and modern plant.



For more information, see your supplier, or write or call Streator Drain Tile Company, Streator, Illinois.



SPECIAL COMMITTEE FOR AMBRAW RESOLUTION

The special committee, after thorough discussion, review and consideration of the particulars, are of the opinion that the motion as passed is in need of clarification to offset, or thwart, any such implications as are added into the recitals of the Ambraw Chapter resolution and to establish the limits of understanding.

The motion as passed by the Board did, however, contain limitations which would be "such services as are desired by the supervising agency". The committee feels that some doubt as to the intent of the motion might have been created by the article contained in the May, 1958, issue of THE ILLINOIS ENGINEER which, evidently through oversight, deleted the last clause in defining motion, namely "where such services are desired by the supervising agency."

The committee feels that by resolving such matter through the application of discussion and understanding of the representative within our Functional Sections a healthy situation and will have a profound effect enhancing the overall activities of our Society.

The committee, therefore, upon completion of its thorough study recommends that the Board of Directors pursue the following actions:

(a) Rescind the action taken on the matter at its April 12, 1958, meeting.

(b) Substitute in lieu thereof, a motion reading as follows: "*That the three National Directors be instructed to so notify the N.S.P.E. of such action of the Board and further urge N.S.P.E. to support in providing that qualified consulting engineers may be employed, for field supervision of municipal and county projects using Federal funds where the employing agency desires and that they may be employed for field supervision of state work using Federal funds where the employing agency desires on projects of an unusual and difficult nature where trained personnel is not available.*"

The committee is hopeful that the recommendations are satisfactory to the Board and to the membership-at-large. In concluding the assignment, the committee recommends that the special committee be dissolved.

Respectfully submitted,

Special Committee:

F. D. Birt, P. E.

I. C. Bliss, P. E.

R. D. Collins, P. E.

V. I. Dodson, P. E.

(Signed) R. G. Brichler, *Chairman*

REPORT OF THE CIVIL DEFENSE COMMITTEE

In making a report of such a committee as the Civil Defense Committee, we begin with the full knowledge that any tangible results may be hidden in the abstract phrase "Yes, I know about Civil Defense". But it would seem that in an organization such as ours the results should be more definite.

What should be the function, the responsibility of the members of Illinois Society of Professional Engineers? What can you as a member of the Society do?

1. Go to your local Civil Defense Director and offer your services. Ask to be assigned to the engineering branch of the organization.

2. As an engineer you should make your peculiar talents available in helping to set up the overall organization.

3. At the moment there seems to be in the offing a multi-billion dollar shelter program. If this goes through there will be need for many hundreds of engineers to design and construct the many shelters needed.

4. In case of either a natural disaster or one caused by enemy action, you would know whether certain structures were safe or should be torn down, or whether rescue work could safely be carried on.

5. The restoration of services such as electric, gas, water, and sanitary service would be a job for which you would be fitted.

6. The job of rebuilding, and the reconstruction of roads, bridges and other structures would be yours and no-one could do it as well as you.

7. If you are appointed as chairman of the Civil Defense Committee of your chapter you should obtain various pamphlets which are available from your local Civil Defense organization and distribute them to all engineers in the area whether they are members of the Society or not. The Madison Chapter of the Society held a program on Civil Defense this year which was watched with intense interest by the members. Questions asked displayed the deep concern they felt for the situation.

8. As a member of the Society and as a member of a community of free men you should feel it your duty to help. Join your local Civil Defense as an engineer who is capable of and who is willing to do so.

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The Consulting Engineering Business of Tracy A. Pitzen (now deceased), of Paxton, Illinois. New air conditioned office for rent or sale. Office and field equipment for sale. Trained office and field personnel available. Decedent represented over 30 drainage districts in drainage work; over 20 cities and villages, in motor fuel, street, water and sanitary work, as well as many other sub-dividers, etc. If interested, write or phone:
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Mrs. Richard Thornton

74TH CONVENTION LADIES' PROGRAM

LADIES' PROGRAM

Arleen Ericson, wife of Roger K. Ericson of Rockford, and Marguerite Thornton, wife of Richard Thornton of Aurora, Co-chairman of Ladies' Activities of the 74th Annual Meeting are busy making plans so your stay will be long remembered.

THURSDAY

Everyone goes shopping at "Flowers By Connie". There is a story to tell behind each item in her collection from all over the world.

The Buffet Luncheon will be at the Food Shop of the Rockford Woman's Club. Excellent food guaranteed.

Good luck! We have secured Mrs. Felix S. Hourdequin to speak on flower arrangements. She is very active in the Garden Club and has written articles on tuberous begonias for the American Home.

A card party will be held in the Faust room for those who want to take it easy (Prizes). For those who wish to roam tours have been arranged. High lights follow.

Tinker Cottage is designed after a Swiss Chalet to

fulfill a dream of Robert Tinker. Lincoln lore is just one of the cottage's attraction for visitors. You will see the original furnishings and many other valuable mementoes from abroad.

The Swedish Historical Society maintains the Eklander Home to preserve Swedish Culture. There are many rare items of historical interest to see.

Like to swim, bowl, iceskate or dance to the Dixieland Band. We have all this to entertain you after the Buffet at the Wagon Wheel Lodge.

FRIDAY

Let's go again. Like furniture? See it made at Weiman Furniture Factory.

Next! Door Prizes, Door Prizes, Door Prizes, and lunch, too.

Mrs. Roland Schlitz, who was owner of a portrait and commercial photography studio, now puts in full time in the Engineering Department of Thor Tool in Aurora. Her cameras are the eyes by which you will take a trip through the West Indies.

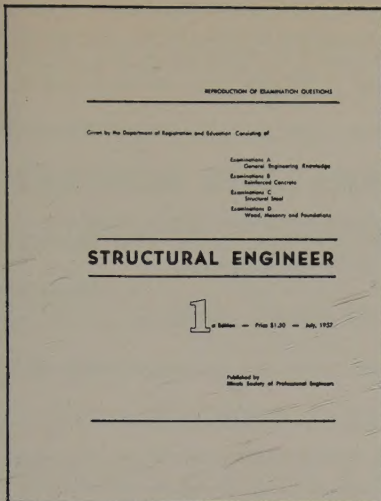
Tea Time will tide us over to the Banquet.

End a perfect day dancing with your engineer.

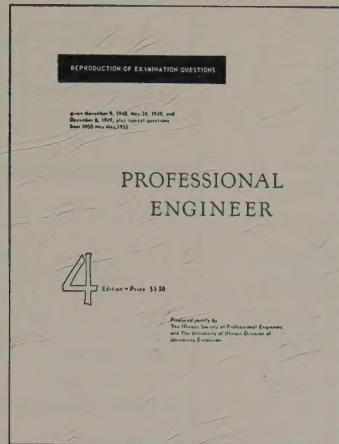


Mrs. Roger K. Ericson

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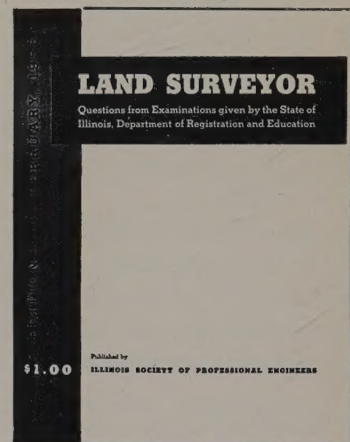


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The response from the members has been terrific thus far on a recent questionnaire regarding the Association's adoption of a group life insurance program. For an annual premium of \$30.00 (only \$2.50 per month) you can receive the following amounts of insurance depending on your age:

Age 20:	\$10,500
30:	7,500
40:	4,500
50:	2,250
60:	1,000

(Interpolate for intermediate years)

As we have previously pointed out, this program will allow our members to purchase life insurance protection at wholesale group insurance rates and without medical examination, however, there is more to a group insurance program of this type than the initial cost. Since all premiums not used for claims and necessary administrative expenses of the insurance company are returned to us in the form of an annual dividend, it is anticipated that your net cost in future years may be much lower. Dividends of 25 percent and even much higher are not uncommon on programs of this nature.

This surplus can be used for reduced premiums or larger amounts of coverage in future years for those enrolled in the program.

In addition, we believe that this program will strengthen our Association and help us to attract and keep new members.

Our adoption of this program will depend on the number of replies received expressing interest. If you have not returned the recent questionnaire, please fill out the simple statement below and mail it in at once! (This is *not* your enrollment.)

To:

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Yes, I am interested in the I.S.P.E. Group Life Insurance program.

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